

## INTERNATIONAL SEARCH REPORT

 Application No  
 PCT/CA 03/00016

 A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 B01J8/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J F28D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 715 886 A (BASF AG) 12 June 1996 (1996-06-12) abstract column 3, line 48 -column 4, line 2; figure 1 ---	1-3
X	US 5 071 627 A (CHOI BYUNG C ET AL) 10 December 1991 (1991-12-10) abstract column 4, line 54 -column 5, line 30; figures 1A,1B ---	1-3
X	PATENT ABSTRACTS OF JAPAN vol. 009, no. 317 (C-319), 12 December 1985 (1985-12-12) & JP 60 153936 A (BABCOCK HITACHI KK), 13 August 1985 (1985-08-13) abstract; figures 5,6 ---	1-3
-/--		

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

10 April 2003

Date of mailing of the international search report

25/04/2003

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax (+31-70) 340-3016

Authorized officer

Thomasson, P

## INTERNATIONAL SEARCH REPORT

Application No  
PCT/CA 03/00016

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 859 297 C (ERNST SCHMIDT BRAUNSCHWEIG DR) 11 December 1952 (1952-12-11) page 1, line 80 - line 114; figure 1 -----	1,2
X	US 2 778 610 A (ERNEST BRUEGGER) 22 January 1957 (1957-01-22) column 4, line 14 - line 26; figures 1,2 -----	1
X	PATENT ABSTRACTS OF JAPAN vol. 013, no. 273 (C-609), 22 June 1989 (1989-06-22) & JP 01 067246 A (MITSUBISHI ELECTRIC CORP), 13 March 1989 (1989-03-13) abstract; figure 1 -----	1
X	US 3 289 644 A (NORIO MOTEKI ET AL) 6 December 1966 (1966-12-06) column 1, line 10 - line 16 column 2, line 52 - column 3, line 57; figure 1 -----	1
BEST AVAILABLE COPY		

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Application No  
PCT/LA 03/00016

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0715886	A	12-06-1996	DE 4443774 A1 EP 0715886 A1	13-06-1996 12-06-1996
US 5071627	A	10-12-1991	NONE	
JP 60153936	A	13-08-1985	NONE	
DE 859297	C	11-12-1952	NONE	
US 2778610	A	22-01-1957	NONE	
JP 01067246	A	13-03-1989	NONE	
US 3289644	A	06-12-1966	NONE	

BEST AVAILABLE COPY